Hub City™ Worm Gear Drives

Single Reduction

Century Series Catalog Ratings

Series 450

				CONVENTIONAL OIL					PAO SYNTHETIC OIL					PAG SYNTHETIC OIL				
SER.	INPUT RPM	RATIO	OUTPUT RPM	MECH. INPUT HP	EFF. %	MECH. OUTPUT TORQUE	THERM. INPUT HP	THERM. OUTPUT TORQUE	MECH. INPUT HP	EFF. %	OUTPUT TORQUE	THERM. INPUT HP	THERM. OUTPUT TORQUE	MECH. INPUT HP	EFF. %	OUTPUT TORQUE	THERM. INPUT HP	THERM. OUTPUT TORQUE
450	1750	10	175	18.4	87.1	5772	8.71	2732	18.4	90.4	5991	9.65	3142	18.4	93.7	6209	12.50	4207
		15	117	13.7	84.4	6226	6.01	2739	13.7	87.6	6462	6.66	3150	13.7	90.4	6669	8.93	4397
		20	87.5	11.1	82.8	6632	5.09	3034	11.1	85.9	6880	5.64	3489	11.1	89.5	7169	7.48	4822
		30	58.3	7.72	77.0	6429	3.20	2663	7.72	80.8	6746	3.51	3063	7.72	84.2	7030	4.97	4522
		40	43.8	6.19	74.4	6632	2.82	3018	6.19	78.0	6953	3.09	3470	6.19	81.3	7247	4.20	4919
		50	35.0	5.00	71.6	6356	1.77	2278	5.00	75.1	6667	1.94	2620	5.00	78.2	6942	3.60	5073
		60	29.2	4.03	68.6	5974	2.18	3230	4.03	72.0	6270	2.39	3715	4.03	75.4	6566	3.19	5202
	1170	10	117	15.1	85.9	7100	7.32	3445	15.1	89.2	7373	8.11	3962	15.1	92.4	7637	10.30	5233
		15	78.0	11.3	82.7	7698	5.27	3583	11.3	85.8	7987	5.84	4121	11.3	89.4	8322	7.41	5445
		20	58.5	9.35	80.9	8295	4.60	4080	9.35	84.0	8613	5.10	4692	9.35	87.5	8972	6.28	6026
		30	39.0	6.52	74.4	7971	3.02	3696	6.52	78.0	8357	3.31	4251	6.52	81.3	8710	4.20	5614
		40	29.3	5.31	71.4	8307	2.67	4181	5.31	74.9	8714	2.93	4809	5.31	78.0	9075	3.57	6104
		50	23.4	4.27	68.3	7994	1.84	3444	4.27	71.6	8380	2.02	3961	4.27	74.6	8731	3.09	6321
		60	19.5	3.52	65.1	7530	2.18	4666	3.52	68.3	7900	2.39	5365	3.52	71.5	8270	2.76	6479
	100	10	10.0	2.94	76.8	14231	THERMAL EQUALS MECHANICAL		2.94	79.7	14768	THERMAL EQUALS MECHANICAL		2.94	82.6	15306	THERMAL EQUALS MECHANICAL	
		15	6.7	2.25	71.1	15132			2.25	73.8	15707			2.25	76.9	16366		
		20	5.0	1.55	68.2	13307			1.55	70.8	13814			1.55	73.7	14380		
		30	3.3	1.42	57.8	15843			1.42	60.7	16638			1.42	63.2	17323		
		40	2.5	1.00	53.9	13539			1.00	56.5	14192			1.00	58.9	14795		
		50	2.0	0.66	49.9	10324			0.66	52.3	10821			0.66	54.5	11276		
		60	1.7	0.47	46.1	8284			0.47	48.4	8697			0.47	50.7	9111		

Series 520

				CONVENTIONAL OIL					PAO SYNTHETIC OIL					PAG SYNTHETIC OIL				
SER.	INPUT RPM	RATIO	OUTPUT RPM	MECH. INPUT HP	EFF. %	MECH. OUTPUT TORQUE	THERM. INPUT HP	THERM. OUTPUT TORQUE	MECH. INPUT HP	EFF. %	OUTPUT TORQUE	THERM. INPUT HP	THERM. OUTPUT TORQUE	MECH. INPUT HP	EFF. %	OUTPUT TORQUE	THERM. INPUT HP	THERM. OUTPUT TORQUE
520	1750	10	175	25.9	87.7	8183	12.5	3941	25.9	91.0	8491	13.8	4532	25.9	94.3	8799	17.6	5987
		15	117	19.2	85.3	8861	8.80	4055	19.2	88.5	9193	9.75	4663	19.2	92.2	9578	12.9	6417
		20	87.5	15.0	83.9	9060	7.41	4476	15.0	87.1	9406	8.21	5147	15.0	90.7	9794	10.8	7059
		30	58.3	10.8	78.6	9174	4.73	4018	10.8	82.5	9629	5.19	4621	10.8	85.9	10026	7.13	6614
		40	43.8	8.26	76.3	9077	4.04	4446	8.26	80.1	9529	4.43	5113	8.26	83.4	9922	6.05	7273
		50	35.0	6.53	73.7	8669	3.47	4606	6.53	77.4	9104	3.80	5297	6.53	80.6	9481	5.18	7518
		60	29.2	5.30	71.0	8135	3.20	4905	5.30	74.5	8536	3.50	5640	5.30	78.1	8949	4.58	7721
	1170	10	117	21.9	86.7	10401	11.0	5205	21.9	89.9	10785	12.1	5986	21.9	93.2	11181	14.8	7548
		15	78.0	16.3	83.8	11263	7.51	5176	16.3	87.0	11693	8.33	5953	16.3	90.6	12177	10.7	7962
		20	58.5	12.5	82.2	11269	6.50	5857	12.5	85.3	11694	7.20	6735	12.5	88.9	12188	9.05	8821
		30	39.0	9.00	76.2	11275	4.25	5329	9.00	80.0	11837	4.66	6128	9.00	83.3	12326	6.02	8241
		40	29.3	7.02	73.6	11316	3.79	6105	7.02	77.2	11870	4.15	7021	7.02	80.4	11316	5.13	9036
		50	23.4	5.62	70.6	10869	3.49	6753	5.62	74.1	11408	3.82	7766	5.62	77.2	11885	4.41	9323
		60	19.5	4.60	67.6	10233	3.05	6786	4.60	71.0	10748	3.34	7804	4.60	74.3	11247	3.91	9553
	100	10	10.0	4.22	78.2	20817	THERMAL EQUALS MECHANICAL		4.22	81.2	21616	THERMAL EQUALS MECHANICAL		4.22	84.1	22388	THERMAL EQUALS MECHANICAL	
		15	6.7	3.21	73.1	22146			3.21	75.8	22964			3.21	79.0	23933		
		20	5.0	2.21	70.4	19582			2.21	73.1	20333			2.21	76.1	21167		
		30	3.3	1.98	60.5	22669			1.98	63.5	23793			1.98	66.1	24767		
		40	2.5	1.40	56.8	20048			1.40	59.6	21036			1.40	62.1	21919		
		50	2.0	0.91	52.9	15184			0.91	55.5	15930			0.91	57.8	16590		
		60	1.7	0.65	49.3	12124			0.65	51.8	12739			0.65	54.2	13329		

ADDITIONAL RATINGS FOR OTHER INPUT SPEEDS ARE AVAILABLE AT WWW.REGALBELOIT.COM

OVERHUNG LOAD AND THRUST LOAD INFORMATION

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 451 AND 454 2,200 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODELS 452, 453, 455, AND 456 NOT APPLICABLE. MODELS 457 AND 458 — OHL‡ 2,370 LBS., TO‡ THRUST OUT 3,330 LBS. AND TI‡ THRUST IN 3,140 LBS.
MODELS 459V AND 450V 2,000 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST‡ UP OR DOWN 2,500 LBS.

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 521 AND 524 2,600 LBS. AT CENTER POINT OF SHAFT EXTENSION.
MODELS 522, 523, 525, AND 526 NOT APPLICABLE. MODELS 527 AND 528 — OHL‡ 3,550 LBS., TO‡ THRUST OUT 4,530 LBS. AND TI‡ THRUST IN 3,360 LBS.
MODELS 529V AND 520V 2,300 LBS. AT CENTER POINT OF SHAFT EXTENSION. THRUST‡ UP OR DOWN 3,000 LBS.

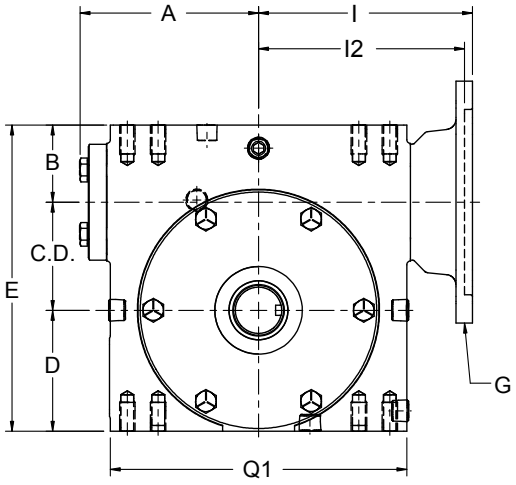
‡OHL AND THRUST VALUES SHOWN ARE INDEPENDENT FUNCTIONS AND CANNOT BE APPLIED SIMULTANEOUSLY. REFER APPLICATIONS WITH COMBINED OHL AND THRUST TO REGAL CUSTOMER SERVICE DEPARTMENT.

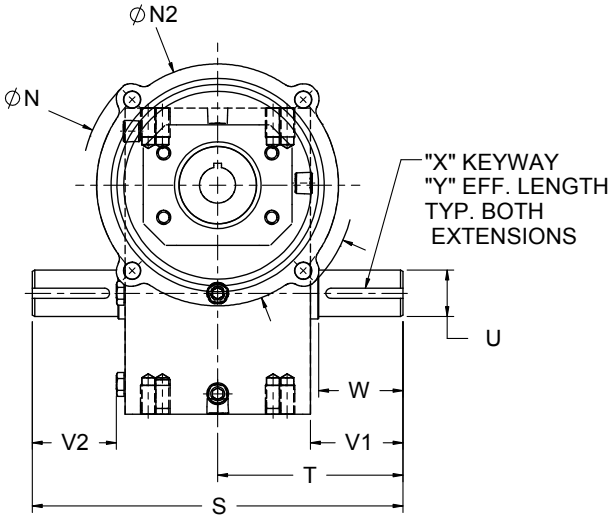
CALL: (605) 225-0360 • FAX: (605) 225-0567

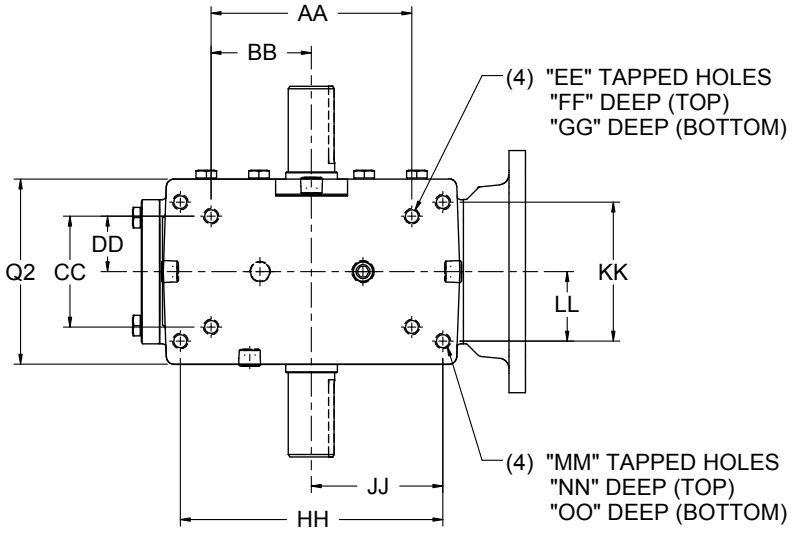
Hub City™ Worm Gear Drives

Single Reduction
Models

134, 154, 184, 214, 244, 264, 304, 324, 384, 424, 454, 524, GW604







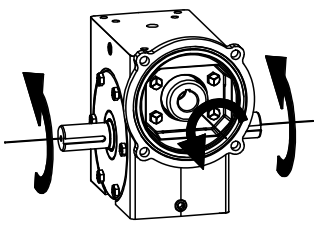
SPECIAL, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE.
CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

ALL GW MODELS ARE FAN COOLED
REFER TO FAN DETAILS ON NEXT PAGE.

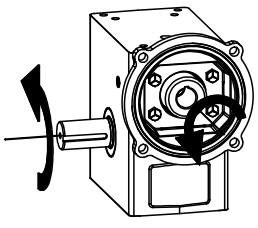
FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION M

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

Standard Styles Available



STYLE "A"



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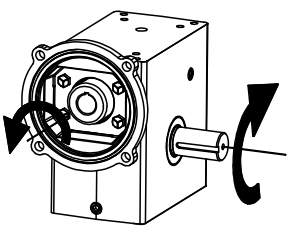


STYLE "C"

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS.
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION.

CALL: (605) 225-0360 • FAX: (605) 225-0567

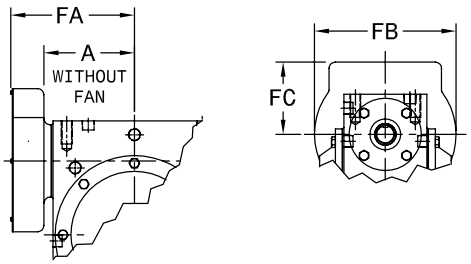
134, 154, 184, 214, 244, 264, 304, 324, 384, 424, 454, 524, GW604

MODEL	C.D.	A	B	D	E	Q1	Q2
134	1.334	2.61	1.186	1.562	4.082	4.12	3.12
154	1.541	3.14	1.928	1.906	5.375	4.88	3.44
184	1.751	3.23	1.374	1.875	5.000	5.16	3.44
214	2.064	3.61	1.500	2.437	6.000	5.88	4.12
244	2.376	3.77	2.061	2.500	6.937	6.12	4.06
264	2.626	4.33	1.874	2.938	7.438	7.20	4.50
304	3.001	4.84	2.624	3.250	8.875	8.12	5.25
324	3.251	5.28	2.124	3.250	8.625	8.62	5.20
384	3.751	4.90	2.374	3.937	10.062	9.60	5.62
424	4.251	6.10	2.686	4.438	11.375	10.25	6.13
454	4.501	5.23	2.499	4.625	11.625	9.25	4.63
524	5.168	5.98	2.624	5.375	13.167	10.75	5.06
GW604	6.000	N/A	4.000	6.500	16.500	14.25	8.13

MODEL	S	T	U	V1	V2	W	X	Y
134	6.50	3.25	.625/.624	1.69	1.53	1.60	3/16 X 3/32	1.38
154	8.62	4.31	.750/.7485	2.11	1.90	2.08	3/16 X 3/32	1.51
184	7.00	3.50	.750/.749	1.78	1.57	1.54	3/16 X 3/32	1.41
214	8.50	4.25	.875/.874	2.19	1.98	1.95	3/16 X 3/32	1.83
244	10.28	5.14	1.125/1.1235	2.66	2.44	2.62	1/4 x 1/8	1.76
264	9.00	4.50	1.250/1.249	2.25	2.04	N/A	1/4 x 1/8	1.85
304	13.50	6.75	1.250/1.2485	3.60	3.36	3.57	1/4 X 1/8	2.26
324	10.88	5.44	1.375/1.374	2.84	2.62	2.75	5/16 X 5/32	2.31
384	13.38	6.69	1.500/1.499	3.88	N/A	N/A	3/8 X 3/16	3.16
424	16.24	8.12	1.875/1.8735	4.50	4.21	4.47	1/2 X 1/4	3.06
454 **	14.50	7.25	1.625/1.624	4.18	N/A	3.90	3/8 X 3/16	3.28
524 ***	15.62	7.81	1.750/1.749	4.47	N/A	4.17	3/8 X 3/16	3.50
GW604	20.00	10.00	2.500	4.65	4.65	N/A	5/8 X 5/16 P&W	4.00

** ALSO AVAILABLE WITH 1.750/1.749 (U) DIAMETER OUTPUT SHAFT. CONSULT FACTORY.
*** ALSO AVAILABLE WITH 2.000/1.999 (U) DIAMETER OUTPUT SHAFT. CONSULT FACTORY.

Fan Detail for Model GW604



MODEL	A	FA	FB	FC
GW604	N/A	11.13	9.50	4.00

ALL GW MODELS ARE FAN COOLED.

MODEL	G	I	I2	N	N2
134	48CZ	3.46	N/A	4.36	3.87
	56C			6.63	6.50
154	48CZ	3.99	N/A	4.36	3.87
	56C			6.63	6.50
	143TC				
184	48CZ	4.09	N/A	4.36	3.87
	56C			6.63	6.50
	143TC				
214	48CZ	4.46	N/A	4.36	3.87
	56C			6.63	6.50
	143TC				
244	56C	4.63	N/A	6.50	6.50
	143TC				
	182TC	N/A	5.06	9.00	9.00
264	56C	5.19	N/A	6.50	6.50
	143TC				
	182TC	N/A	5.81	9.00	9.00
304	56C	5.95	N/A	6.50	6.50
	143TC				
	182TC	N/A	6.15	9.00	9.00
	213TC		6.71		
324	56C	6.14	N/A	6.50	6.50
	143TC				
	182TC	N/A	6.34	9.00	9.00
	213TC		6.90		
384	56C	6.50	N/A	6.50	6.50
	143TC				
	182TC	N/A	6.88	9.00	9.00
424	56C	6.45	N/A	6.50	6.50
	143TC				
	182TC	N/A	7.21	9.00	9.00
	213TC				
	254TC		7.77		
454	56C	6.75	N/A	6.50	6.50
	143TC				
	182TC	N/A	6.75	9.00	9.00
	213TC				
524 *	182TC	N/A	7.50	9.00	9.00
	213TC				
GW604	56C	10.45	N/A	6.50	6.50
	143TC				
	182TC	N/A	9.33	9.00	9.00
	213TC				
	254TC		9.94		

* 56C & 143TC FLANGES AVAILABLE AS MODIFIED STANDARDS

MODEL	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM	NN	OO	Wt. Lbs.
134	2.250	1.125	1.625	0.813	1/4 UNC	0.50	0.50	3.250	1.625	2.000	1.000	5/16 UNC	0.50	0.50	12
154	4.188	2.094	2.750	1.375	5/16 UNC	0.63	0.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16
184	3.125	1.563	1.625	0.813	1/4 UNC	0.50	0.50	4.188	2.094	2.750	1.375	5/16 UNC	0.63	0.63	16
214	4.000	2.000	2.000	1.000	3/8 UNC	0.50	0.70	5.000	2.500	2.875	1.438	3/8 UNC	0.70	0.70	25
244	5.000	2.500	2.875	1.438	3/8 UNC	0.69	0.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38
264	4.875	2.438	2.688	1.344	3/8 UNC	0.70	0.70	6.375	3.188	3.375	1.688	3/8 UNC	0.70	0.70	38
304	7.000	3.500	4.000	2.000	7/16 UNC	0.88	0.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61
324	6.250	3.125	2.750	1.375	1/2 UNC	0.75	0.75	7.500	3.750	4.000	2.000	7/16 UNC	0.88	0.88	67
384	6.875	3.438	3.000	1.500	1/2 UNC	0.94	1.00	8.500	4.250	4.750	2.375	1/2 UNC	1.00	1.00	90
424	8.500	4.250	5.000	2.500	5/8 UNC	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	112
454	8.125	4.063	3.250	1.625	5/8 UNC	0.88	1.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	112
524	9.500	4.750	3.750	1.875	5/8 UNC	1.00	1.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	138
GW604	12.750	6.375	6.380	3.190	5/8 UNC	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	324